

**CONVERSE CONSULTANTS
ORANGE COUNTY**Consulting Engineering
and Applied Sciences15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307Telephone (714) 453-2880
Facsimile (714) 453-2888

January 26, 1995

Mr. Louis Lodrigueza
Orange County Health Care Agency
2009 East Edinger Avenue
Santa Ana, California 92705

Subject: **SUMMARY REPORT OF ADDITIONAL SITE CHARACTERIZATION
Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California
OCHCA Case No. 94IC29
(Converse Project No. 94-42871-03)**

Dear Mr. Lodrigueza:

Converse Consultants Orange County (Converse), on behalf of Red Eagle Properties, is pleased to present this Summary Report of the Additional Site Characterization activities at the referenced property. This report documents the general activities at the referenced property associated with tetrachloroethene (PCE) contamination, discovered during the removal of the southern clarifier. For site vicinity, see Figure 1.

Background

During removal of two clarifiers from the property in September 1994, soil contamination from tetrachloroethene (PCE) and total recoverable petroleum hydrocarbons (TRPH) was discovered beneath the southern clarifier. For site layout, see Figure 2.

Initial site characterization indicated that significant contamination was not present at 15 feet beneath the former clarifier. Additional investigation was requested by the California Regional Water Quality Control Board, Santa Ana Region.

On December 2, 1994, Converse advanced six (6) soil borings using a Geoprobe Systems sampling technique. Initial depths of 15 feet bgs were targeted for investigation. Soil samples were obtained from 15 feet bgs, and were field screened using an organic vapor analyzer (OVA). Soil samples were then submitted to an on-site mobil laboratory for analysis. Borings from which the soil sample exhibited elevated levels of PCE were advanced further, and samples were obtained at five-foot intervals. Additional borings were located based on soil analytical results from previous borings.

Analytical results from the soil samples obtained indicated that further study was needed to define the vertical and lateral extent of PCE contamination.

Field Activities

On January 9 through 11, 1995, Converse advanced (9) additional soil borings on the property in an attempt to vertically and laterally characterize the extent of contamination (BH-4A through BH-6A and BH-8 through BH-13) using a Geoprobe Systems sampling technique. All borings were located based on previous soil analytical data. See Figure 3 for boring locations.

Borings BH-4A, BH-5A, and BH-6A were adjacent to BH-4, BH-5, and BH-6, respectively. Soil samples were obtained from borings BH-4A and BH-6A at 5-foot intervals, beginning at 20 feet. Boring BH-5A was a continuously cored boring to 40 feet, with soil samples obtained at 5-foot intervals, beginning at 25 feet.

Borings BH-8 through BH-13 were advanced to 40 feet, with soil samples obtained at 5-foot intervals beginning at 15 feet. Boring BH-11 was a continuously cored boring.

Soil samples from each boring were submitted to an on-site mobil laboratory for analysis. Additional borings were then located based upon the mobil laboratories analytical results. At the completion of the boring activities, the boreholes were backfilled with bentonite chips and hydrated with purified water. See Appendix A for field methodologies.

Soil Analytical Results

A total of 51 soil samples were submitted to the mobil laboratory for analysis. The samples were analyzed in accordance with EPA methods 8010 (PCE). The analytical results, including the results from borings from the previous investigations are presented in Table I.

The highest concentrations of PCE contamination occurred consistently between 20 and 25 feet bgs. PCE (less than 60 ppb) was detected in some samples obtained from 40 feet bgs at three of the nine new boring locations (BH-10, BH-11, and BH-12). Samples obtained from shallower depths in these three locations did not reveal PCE soil contamination.

For a complete copy of the analytical results, see Appendix B.

Soil Conditions and Other Observations

Generally, the subsurface soil conditions consist primarily of clayey silts and silty clays encountered at approximately 15 feet bgs and extending to approximately 35 feet bgs. Some fine grained sand with silt was encountered at 20 feet bgs and 37 feet bgs in BH-11 and BH-5A, extending to approximately 40 feet bgs, where more clayey silt was encountered. See Appendix C for the boring logs.

Ground water was not encountered in any borings, and is estimated at a depth of approximately 60 feet bgs in the area, based on information obtained from nearby monitoring wells. The gradient is believed to be towards the southwest.

Conclusions and Recommendations

Based on the findings from the additional characterization activities, it appears that contamination of the soil from PCE has essentially been defined laterally to the west and northwest of the former clarifier. The vertical extent has not been completely defined, although the highest concentrations found occur above 30 feet bgs.

The highest concentrations of PCE found in the soil occur to the west and northwest of the former clarifier at depths of 20 to 25 feet bgs. It is possible that contamination could have occurred from a source between the existing building and the former clarifier (possibly a former fill pipe). The contamination detected at 40 feet could be from migration of the suspected source (fill pipe), or from a different (possibly off-site) source.

Due to the elevated concentration of PCE contamination at depths of 20 to 25 feet, the presence of PCE at 40 feet, and your verbal suggestions, Converse recommends the installation of three (3) ground water monitoring wells on the property. This will determine if ground water has been impacted by the suspected on-site source or an off-site source.

Limitations

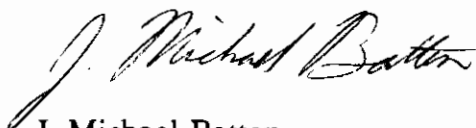
The findings presented herein are based on our evaluation of currently available data and were prepared in accordance with generally accepted environmental principles common to the local area in which we practice. We make no other warranty, either expressed or implied.

Converse is not responsible for the accuracy of information provided by others. This report should not be regarded as a guarantee that no subsurface contamination is present at the property beyond what has been disclosed. There may be subsurface conditions that cannot be reasonably predicted with the services performed to-date.

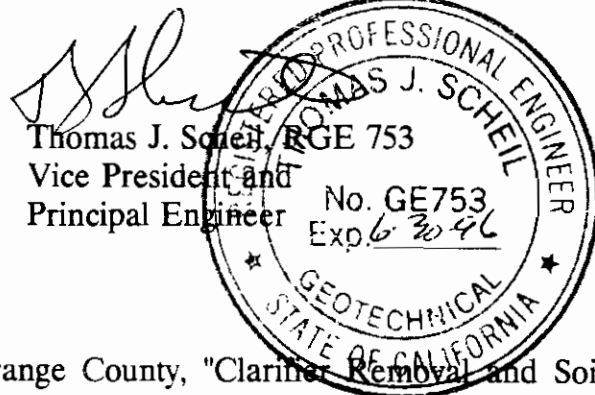
If you have any questions, please contact us at (714) 453-2880.

Sincerely,

CONVERSE CONSULTANTS ORANGE COUNTY



J. Michael Batten
Project Geologist



Thomas J. Scheil, RGE 753
Vice President and
Principal Engineer

JMB/GSS/TJS

References: Converse Consultants Orange County, "Clarifier Removal and Soil Analysis, Fullerton Business Park North," October 18, 1994.

Converse Consultants Orange County, "Site Characterization Summary Report, Fullerton Business Park North," November 11, 1994.

Converse Consultants Orange County, "Summary Report, Additional Site Characterization, Fullerton Business Park North," December 13, 1994.

Attachments:

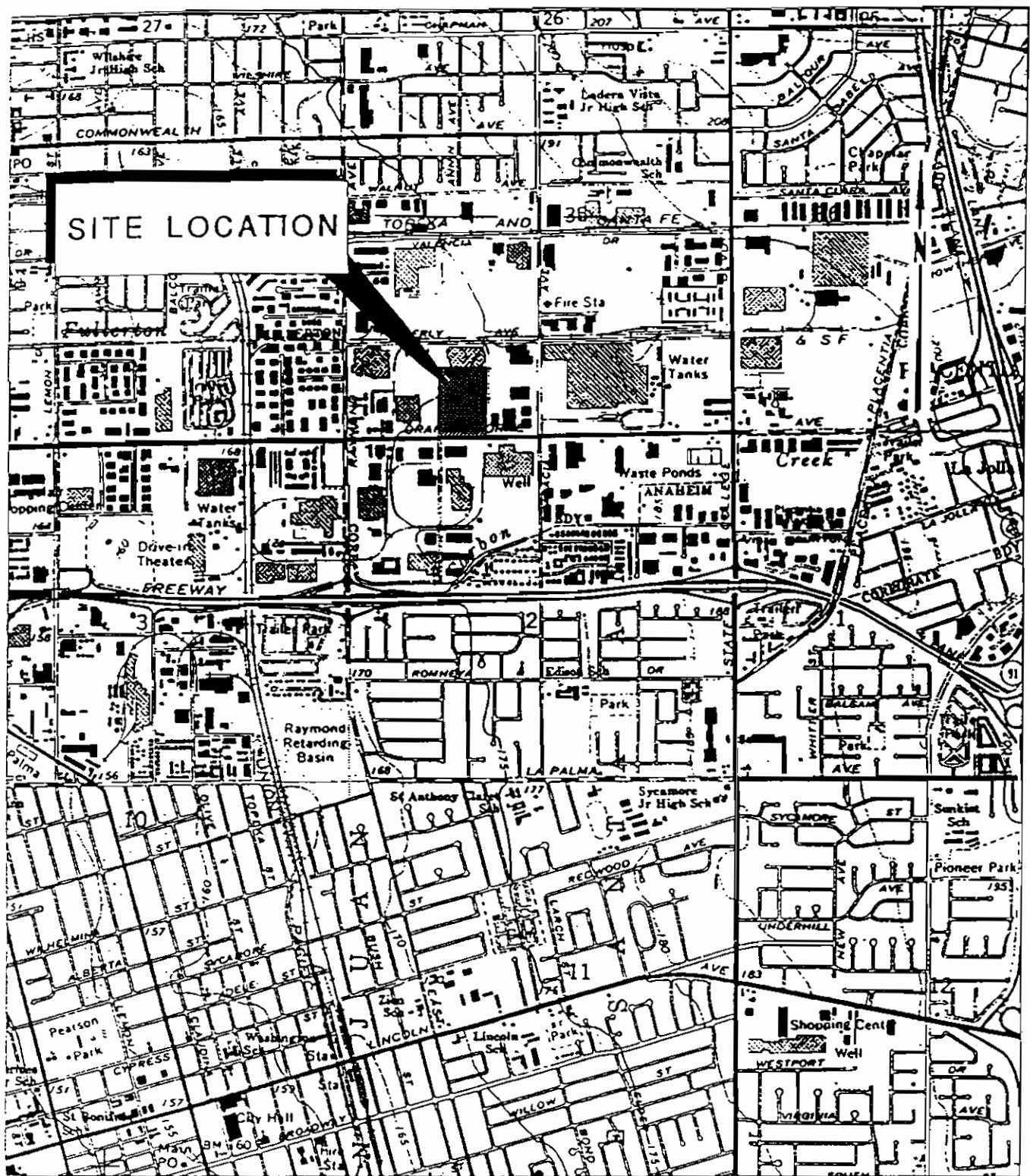
Figure 1 - Vicinity Map
Figure 2 - Site Layout Map
Figure 3 - Detail Map
Table I - PCE Concentrations in Soil Samples
Appendix A - Field Methodologies
Appendix B - Analytical Report
Appendix C - Boring Logs

Distribution:

1 Addressee
1 Mr. Robert Holub, Santa Ana Regional Water Quality
Control Board
2 Mr. Carl Ross, Red Eagle Properties
1 Mr. Mark Boen, Red Eagle Properties



FIGURES



Reference: U.S.G.S Topographic Map, 7.5 Minute Series, Anaheim, California Quadrangle, Dated 1965. (Photorevised 1981).

0 2000 4000
SCALE IN FEET

VICINITY MAP

SITE CHARACTERIZATION
1551 East Orangethorpe Avenue
Fullerton, California

Project No.

94-42871-03

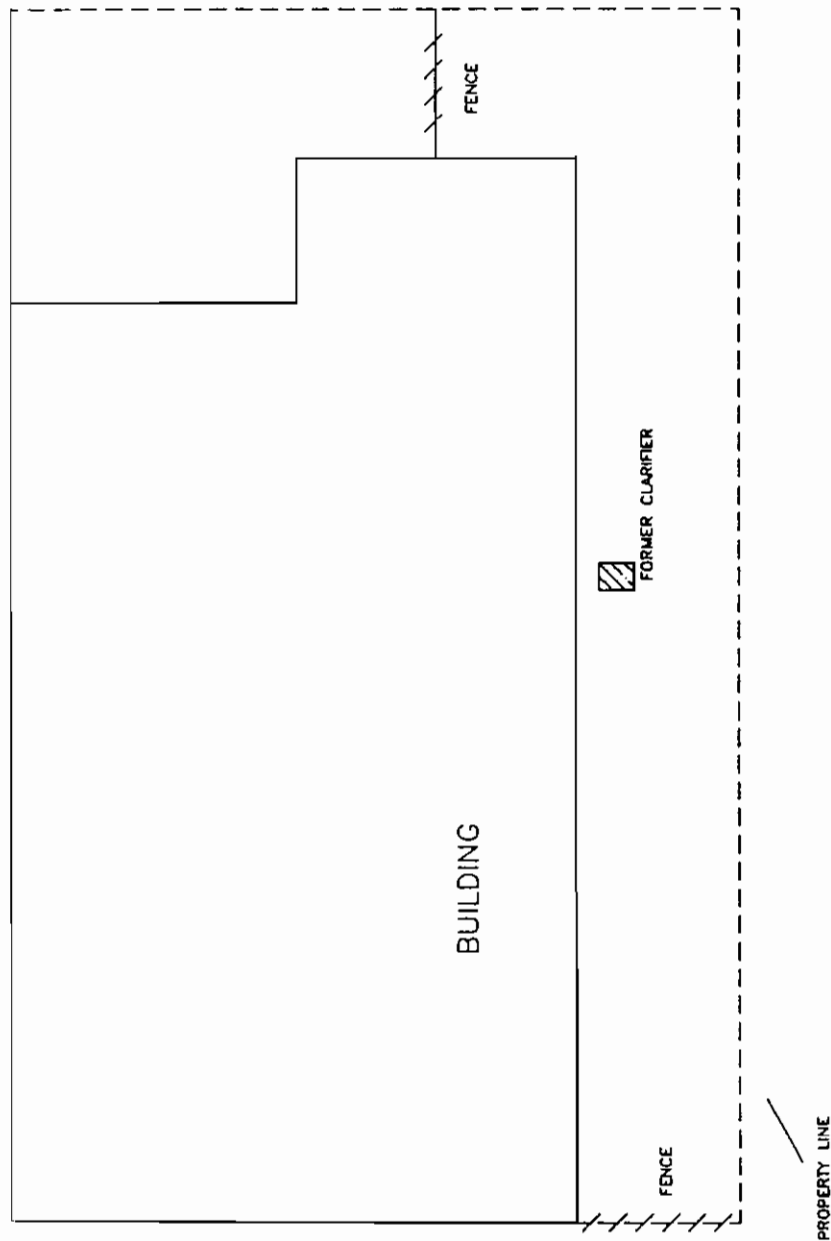


Converse Consultants
Orange County

Geotechnical Engineering
and Applied Sciences

Figure No.

1



Converse Consultants
Orange County

Consulting Engineering
and Applied Sciences

SITE LAYOUT MAP

Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California

DATE: 11/14/94

PROJECT NO: 94-42871-03

FIGURE NO:

SCALE: 1" = 60'

CHECKED BY:

2

NOTE:

This figure is part of Converse Consultants Orange County
report dated 1/24/95.

BUILDING

BH-10

BH-13

BH-12

BH-9

BH-8

BH-5A
BH-5

FORMER CLARIFIER
LOCATION

BH-6A
BH-6

BH-3

BH-1

BH-2

BH-7

BH-11

BH-4A

BH-4



Converse Consultants
Orange County

Consulting Engineering
and Applied Sciences

SITE LAYOUT MAP

Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California

DATE: 12/12/94

PROJECT NO: 9442871-03

FIGURE NO:

SCALE: 1" = 4'

CHECKED BY:

3

NOTE:

This figure is part of Converse Consultants Orange County
report dated 1/24/95.



T A B L E S

871tbl_1.wq1

Revised: 25-JAN-95

PM: JMB

TABLE I
PCE CONCENTRATIONS IN SOIL SAMPLES
FULLERTON BUSINESS PARK NORTH
(Converse Project No. 94-42871-03)

DEPTH OF SAMPLE (FT)	BORING LOCATION NO.															
	BH-1	BH-2	BH-3	BH-4	BH-4A	BH-5	BH-5A	BH-6	BH-6A	BH-7	BH-8	BH-9	BH-10	BH-11	BH-12	BH-13
15	ND	3,500	270	ND	--	84,500	--	ND	--	130	32,000	ND	570	31	190	140
20	17	320	ND	--	ND	96,000	--	--	ND	330	26,000	ND	ND	19	ND	16
25	ND	1,950	8,900	--	12	88,000	--	--	20	ND	92,000	18,000	ND	100	41	13
30	38	ND	--	--	23	--	17,500	--	56	--	15,000	ND	ND	29	11	ND
35	ND	ND	--	--	39	--	1,070	--	ND	--	ND	ND	ND	ND	ND	ND
40	ND	ND	--	--	52	--	28	--	ND	--	ND	ND	45	16	50	ND

Reported in parts per billion (ug/kg, ppb)

ND = Not Detected

-- = Sample not obtained



APPENDIX A

FIELD METHODOLOGIES

Geoprobe Advancement

The exploration program for this study consisted of Geoprobe probe advancement and drive sampling for the collection of soil samples. The probe was advanced on January 9 - 11, 1995 by On-Site Services using a Geoprobe Systems probing machine.

Probe advancement was conducted such that the locations were open to the atmosphere (air-filled) during advancement. No fluids, including clean water, or additives were used during probe advancement.

Drive Sampling

Drive soil samples were collected from the probe locations at specified depth intervals (typically 5-foot). Soil samples were obtained by driving a 1-inch diameter steel driving tube at the end of a percussion drill steel. The sampling tube was equipped with a steel drive head which was withdrawn, via the extending rod, at the upper limit of the desired sample interval. The tube was then driven into the undisturbed soil and an approximately 100 gram sample was collected over a 1-foot vertical interval. The sample was then brought to the ground surface by withdrawing the sections of drill steel.

After the sampler was removed from the probe location, the soil sample for chemical analyses was inspected to verify that there was no head space in the sample. If gravel extended from the sample, or head space was observed in the soil sample, the sample was considered invalid and an additional attempt was made to collect a valid sample. If the retrieved sample was considered valid, the brass sleeve was covered with teflon sheeting and tightly capped.

Once at the ground surface, the soil sampling tube was capped, placed into a polyethylene bag, labeled, and immediately submitted to an on-site mobil laboratory for analysis. Soil samples were collected, stored, transported and analyzed in accordance with EPA Sample Collection Codes. A Chain-of-Custody record was maintained throughout the operation. Analytical Laboratories of Orange, California (State certified laboratory) chemically analyzed selected samples in accordance with EPA Method 8010.

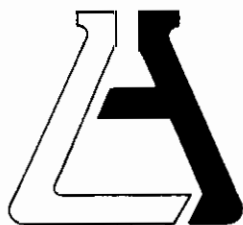
After a soil sample was collected, the sampling equipment was washed with alcanox and rinsed.

Chain-of-Custody Procedures

Chain-of-Custody procedures were maintained for all soil samples collected. This form was completed by the sample collector before releasing the samples to the laboratory. The chain-of-custody form was routed with the samples through transportation and analyses. Completed chain-of-custody forms were returned to Converse along with the results from the analytical laboratory. These forms are retained by Converse in the central project files, and are included in Appendix B.



APPENDIX B



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

CLIENT

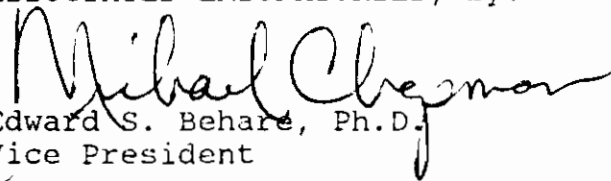
Converse Environmental West (4708) LAB NO G83413
Attn: Mike Batton
15245 Alton Parkway REPORTED 01/10/95
Suite 100
Irvine, CA 92718

SAMPLE Soil RECEIVED 01/09/95
IDENTIFICATION As Below
Date Collected 01/09/95
BASED ON SAMPLE As Submitted

Tetrachloroethene EPA 8010

BH-5A/1	17,500 mg/kg
BH-5A/2	1,070 mg/kg
BH-5A/3	28 mg/kg
BH-6A/1	ND<10 mg/kg
BH-6A/2	20 mg/kg
BH-6A/3	56 mg/kg
BH-6A/4	ND<10 mg/kg
BH-6A/5	ND<10 mg/kg
BH-4A/1	ND<10 mg/kg
BH-4A/2	12 mg/kg
BH-4A/3	23 mg/kg
BH-4A/4	39 mg/kg
BH-4A/5	52 mg/kg

ASSOCIATED LABORATORIES, by:


Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded
by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING

Chemical •
Microbiological •
Environmental •



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

CLIENT

Converse Environmental West
Attn: Mike Batten
15245 Alton Pkwy., #100
Irvine, CA 92718-2307

LAB NO ML00791
REPORTED 01/16/95

SAMPLE

Soil

RECEIVED 01/10/95

IDENTIFICATION

Red Eagle
Project #9442871-03
1551 Orangethorpe, Fullerton

BASED ON SAMPLE

As Submitted to Our Mobile Laboratory

Tetrachloroethene

BH-8 @ 15-15.5'	32,000 ppb
BH-8 @ 20-20.5'	26,000 ppb
BH-8 @ 25-25.5'	92,000 ppb
BH-8 @ 30-30.5'	15,000 ppb
BH-8 @ 35-35.5'	ND<10 ppb
BH-8 @ 40-40.5'	ND<10 ppb
BH-9 @ 15-15.5'	ND<10 ppb
BH-9 @ 20-20.5'	ND<10 ppb
BH-9 @ 25-25.5'	18,000 ppb
BH-9 @ 30-30.5'	ND<10 ppb
BH-9 @ 35-35.5'	ND<10 ppb
BH-9 @ 40-40.5'	ND<10 ppb
BH-10 @ 15-15.5'	570 ppb
BH-10 @ 20-20.5'	ND<10 ppb
BH-10 @ 25-25.5'	ND<10 ppb
BH-10 @ 30-30.5'	ND<10 ppb
BH-10 @ 35-35.5'	ND<10 ppb
BH-10 @ 40-40.5'	45 ppb

ASSOCIATED LABORATORIES, by:


Edward S. DeHare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded
by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

ANALYZING
Chemical •
Microbiological •
Environmental •



806 N. Batavia • Orange, CA 92668
(714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 1/10/95 Page 1 of 2

CLIENT Course Consultants
ADDRESS 15245 ALVIN Hwy. Hill
IRVINE, CA. 92718-2307
PROJECT NAME RED EAGLE

PROJECT MANAGER

PHONE NUMBER

SAMPLERS: (Signature)

Samples Intact Yes ☒ No ☐
County Seals Intact Yes ☐ No ☒
Sample Ambient ☒ Cooled ☐ Frozen ☐
Same Day ☒ 24 Hr. ☐
Regular ☐ 48 Hr. ☐

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE			NO OF CNTNRS	SUSP CONTAM	TESTS REQUIRED
				WATER	AIR	SOLID			
1-	BH-8 15-15.5'	1/10/95	8:20			✓	1	RE	(SOIL) RE only
2-	DH-8 20-20.5'		8:25			✓	1		
3-	BH-8 20-25.5'		8:30			✓	1		
4-	BH-8 20-30.5'		9:15			✓	1		
5-	BH-8 35-35.5'		9:30			✓	1		
6-	BH-8 40-40.5'		9:55			✓	1		
7-	BH-9 15-15.5'		10:30			✓	1		
8-	BH-9 20-20.5'		10:45			✓	1		
9-	BH-9 25-25.5'		11:05			✓	1		
10-	BH-9 30-30.5'		11:15			✓	1		
11-	BH-9 35-35.5'		11:40			✓	1		
12-	BH-9 40-40.5'		11:55			✓	1		

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

I hereby authorize the performance of the above indicated work.

Relinquished by: (Signature)

Received by Laboratory for analysis: (Signature)

Date/Time

Special Instructions:

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

CLIENT

Converse Environmental West
Attn: Mike Batten
15245 Alton Pkwy., #100
Irvine, CA 92718-2307

LAB NO. ML00794
REPORTED 01/16/95

SAMPLE

Soil

RECEIVED 01/11/95

IDENTIFICATION

Red Eagle
Project #942871-03
1551 Orangethorpe, Fullerton

BASED ON SAMPLE

As Submitted to Our Mobile Laboratory

Tetrachloroethene

BH-11 @ 15-15.5'	31 ppb
BH-11 @ 20-20.5'	19 ppb
BH-11 @ 25-25.5'	100 ppb
BH-11 @ 30-30.5'	29 ppb
BH-11 @ 40-40.5'	16 ppb
BH-11 @ 35-35.5'	ND<10 ppb
BH-12 @ 15-15.5'	190 ppb
BH-12 @ 20-20.5'	ND<10 ppb
BH-12 @ 25-25.5'	41 ppb
BH-12 @ 30-30.5'	11 ppb
BH-12 @ 35-35.5'	ND<10 ppb
BH-12 @ 40-40.5'	50 ppb
BH-13 @ 15-15.5'	140 ppb
BH-13 @ 20-20.5'	16 ppb
BH-13 @ 25-25.5'	13 ppb
BH-13 @ 30-30.5'	ND<10 ppb
BH-13 @ 35-35.5'	ND<10 ppb
BH-13 @ 40-40.5'	ND<10 ppb

ASSOCIATED LABORATORIES, by:


Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded
by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

PHYSICS CONSULTING
Chemical •
Microbiological •
Environmental •



806 N. Batavia • Orange, CA 92668
(714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 1/11/95 Page 1 of 2

CLIENT <u>Lawrence Consultants</u>		PROJECT MANAGER <u>Mike Patton</u>		Samples Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
ADDRESS <u>15215 A. T. Dr. Orange, CA 92668</u>		PHONE NUMBER <u>(714) 450-2880</u>		County Seals Intact Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
PROJECT NAME <u>RED EAGLE</u>		SAMPLERS: (Signature) <u>[Signature]</u>		Sample Ambient <input checked="" type="checkbox"/> Cooled <input type="checkbox"/> Frozen <input type="checkbox"/>					
				Same Day <input checked="" type="checkbox"/> 24 Hr. <input type="checkbox"/>					
				Regular <input type="checkbox"/> 48 Hr. <input type="checkbox"/>					
SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE			NO OF CNTNRS	SUSP CONTAM	TESTS REQUIRED
				WATER	AIR	SOLID			
1-	BH-11 15-15.5'	1/11/95	8:25			✓	1	PCE	
2-	BH-11 20-20.5'		8:50			✓	1		(8010) PCE only
3-	BH-11 25-25.5'		9:10			✓	1		
4-	BH-11 30-30.5'		1:30			✓	1		
5-	BH-11 40-40.5'		9:50			✓	1		
6-	BH-11 35-35.5'		10:10			✓	1		
7-	BH-12 15-15.5'		10:20			✓	1		
8-	BH-12 20-20.5'		12:00			✓	1		
9-	BH-12 25-25.5'		12:00			✓	1		
10-	BH-12 30-30.5'		12:30			✓	1		
11-	BH-12 35-35.5'		12:45			✓	1		
12-	BH-12 40-40.5'		1:10			✓	1		
Relinquished by: (Signature) <u>[Signature]</u>		Received by: (Signature) <u>[Signature]</u>		Date/Time <u>1/11/95</u>		I hereby authorize the performance of the above indicated work.			
Relinquished by: (Signature)		Received by Laboratory for analysis: (Signature)		Date/Time					
Special Instructions:									
DISTRIBUTION: White with report. Yellow to AL, Pink to Courier									



806 N. Batavia • Orange, CA 92668
(714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 1/11/95 Page 2 of 2

CLIENT <u>Converse Consultants</u>	PROJECT MANAGER <u>Mike Patton</u>	Samples Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> County Seals Intact Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Sample Ambient <input checked="" type="checkbox"/> Cooled <input type="checkbox"/> Frozen <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> 24 Hr. <input type="checkbox"/> Regular <input type="checkbox"/> 48 Hr. <input type="checkbox"/>
ADDRESS <u>15245 ALTON PKWY #100</u> <u>IRVINE, CA. 92718-2305</u>	PHONE NUMBER <u>(714) 453-2880</u>	
PROJECT NAME <u>RED EAGLE</u>	SAMPLERS: (Signature) <u>[Signature]</u>	

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE			NO OF CNTNRS	SUSP. CONTAM	TESTS REQUIRED
				WATER	AIR	SOLID			
13-	BH-13 15-15.5'	1/11/95	2:10			✓	1	PC	180101 PCE ONLY!
14-	BH-13 20-20.5'		2:25			✓	1		
15-	BH-13 25-25.5'		2:35			✓	1		
16-	BH-13 30-30.5'		2:55			✓	1		
17-	BH-13 35-35.5'		3:10			✓	1		
18	BH-13 40-40.5'		3:30			✓	1		

Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature) <u>[Signature]</u>	Date/Time <u>1/11/95</u>	I hereby authorize the performance of the above indicated work.
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time	
Special Instructions:			DISTRIBUTION: White with report. Yellow to AL, Pink to Courier



APPENDIX C



PROJECT NAME <u>RED EAGLE/FULLERTON</u> PROJECT NO. <u>94-42871-03</u> SITE GEOLOGIST(S) <u>SSM</u> LOGGED BY <u>SSM</u>		CONTRACTOR <u>ON-SITE SERVICES</u> DRILLER(S) <u>ON-SITE SERVICES</u> RIG/METHOD <u>GEOPROBE</u> SCREEN INTERVAL <u>N/A</u> DRLR TD(ft) <u>41.00</u> WELL CONST TD(ft) <u>N/A</u>	
ELEVATIONS(REL. MSL) GRADE LEVEL(ft) _____ TOP OF CASING(ft) <u>N/A</u>		LOCATION T <u>R</u> SEC. <u>1/4</u> CITY <u>FULLERTON</u> CO <u>OR</u> COORDINATES(ft) _____	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	<u>1/9/95</u>	▼ ATD	_____	<u>N/A</u>
WELL CONST	<u>1/9/95</u>	▽ SWL*	_____	<u>N/A</u>
WELL DEVELOP	<u>N/A</u>	⊥ SPL*	<u>N/A</u>	<u>N/A</u>
BACKFILL	<u>1/9/95</u>	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE Gvl -Gravel > 2.0 mm Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm Slt -Silt <0.062 mm Cl -Clay/Mud		PID/OVA CALIBRATION DATE: <u>1/6/95</u> CALIBRATION UNITS: <u>95 ppm</u> THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS. THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.																							
ENV SAMPLE	PID/OVA READING	DEPTH (ft)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">GVL</th> <th style="width:10%;">SCR</th> <th style="width:10%;">SMD</th> <th style="width:10%;">SFN</th> <th style="width:10%;">SLT</th> <th style="width:10%;">CL</th> <th style="width:10%;">GRAPHICS</th> <th style="width:10%;">WELL CONSTRUCTION</th> <th style="width:10%;">MOISTURE</th> <th style="width:10%;">SOIL CLASSIFICATION</th> <th style="width:40%;">DESCRIPTION</th> </tr> <tr> <td colspan="10"></td> <td>OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.</td> </tr> </table>	GVL	SCR	SMD	SFN	SLT	CL	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION											OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
GVL	SCR	SMD	SFN	SLT	CL	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION															
										OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.															
		0	ASPHALT																						
		5																							
		10																							
		15																							
1		20	SANDY SILT: FINE TO MEDIUM GRAIN SAND, BROWN.																						
2		25	SANDY SILT: INCREASING SAND, FINE TO MEDIUM GRAIN.																						

ENV SAMPLE		PID/OVA READING	LITHOLOGICAL PROFILE Gvl -Gravel > 2.0 mm Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm Slc -Silt <0.062 mm Cl -Clay/Mud	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
			Gvl Scr Smd Sfn Slc Cl	25					
3				30			sm ML		CLAYEY SILT: SOME SAND, DRK. BROWN.
				35			sm SM		SILTY SAND: FINE TO MEDIUM GRAIN, LT. BROWN.
4				40			sm SP		SAND: FINE TO MEDIUM GRAIN, LT. BROWN.
5				45			sm ML		SANDY SILT: TRACE CLAY, BROWN, FINE TO MEDIUM GRAIN SAND.
				50					PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.
				55					
				60					
				65					

LOG OF: BH-11

PROJECT NAME <u>RED EAGLE/FULLERTON</u> PROJECT NO. <u>94-42871-03</u> SITE GEOLOGIST(S) <u>SSM</u> LOGGED BY <u>SSM</u>		CONTRACTOR <u>ON-SITE SERVICES</u> DRILLER(S) <u>ON-SITE SERVICES</u> RIG/METHOD <u>GEOPROBE</u> SCREEN INTERVAL <u>N/A</u> DRLR TD(ft) <u>41.00</u> WELL CONST TD(ft) <u>N/A</u>	
ELEVATIONS(REL. MSL)		LOCATION T <u>R</u> SEC. <u>1/4</u>	
GRADE LEVEL(ft) _____		CITY <u>FULLERTON</u> CO <u>OR</u>	
TOP OF CASING(ft) <u>N/A</u>		COORDINATES(ft) _____	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	<u>1/11/95</u>	▼ ATD	_____	<u>N/A</u>
WELL CONST	<u>1/11/95</u>	▽ SWL*	_____	<u>N/A</u>
WELL DEVELOP	<u>N/A</u>	≡ SPL*	<u>N/A</u>	<u>N/A</u>
BACKFILL	<u>1/11/95</u>	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE Gvl -Gravel > 2.0 mm Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm Slt -Silt <0.062 mm Cl -Clay/Mud		PID/OVA CALIBRATION DATE: <u>1/6/95</u> CALIBRATION UNITS: <u>95 ppm</u> THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS. THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.																							
ENV SAMPLE	PID/OVA READING	DEPTH (ft)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">Gvl</th> <th style="width:10%;">Scr</th> <th style="width:10%;">Smd</th> <th style="width:10%;">Sfn</th> <th style="width:10%;">Slt</th> <th style="width:10%;">Cl</th> <th style="width:10%;">GRAPHICS</th> <th style="width:10%;">WELL CONSTRUCTION</th> <th style="width:10%;">MOISTURE</th> <th style="width:10%;">SOIL CLASSIFICATION</th> <th style="width:50%;">DESCRIPTION</th> </tr> <tr> <td colspan="10"></td> <td>OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.</td> </tr> </table>	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION											OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION															
										OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.															
		0	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> sm SP </div> <p>ASPHALT</p> <p>SAND: FINE TO MEDIUM GRAIN, LT. BROWN</p>																						
		5																							
		10																							
		15	<div style="border: 1px solid black; height: 20px; width: 100%; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> sm ML </div> <p>CLAYEY SILT: DRK. BROWN, INCREASING FINES.</p> <p>INCREASING CLAY.</p>																						
1		20	<div style="border: 1px solid black; height: 20px; width: 100%; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> sm SP </div> <p>SAND: FINE TO MEDIUM GRAIN, LT. BROWN.</p>																						
		25	<div style="border: 1px solid black; height: 20px; width: 100%; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> sm SM </div> <p>SANDY SILT: FINE GRAIN SAND, BROWN.</p> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> sm SP </div> <p>SAND: FINE TO MEDIUM GRAIN, LT. BROWN.</p>																						
2		30	<div style="border: 1px solid black; height: 20px; width: 100%; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> sm ML </div> <p>CLAYEY SILT: DRK. BROWN.</p>																						
		35	<div style="border: 1px solid black; height: 20px; width: 100%; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> sm SM </div> <p>SANDY SILT: FINE TO MEDIUM GRAIN, BROWN.</p>																						
		40	<div style="border: 1px solid black; height: 20px; width: 100%; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> sm ML </div> <p>CLAYEY SILT: DRK. BROWN.</p>																						

ENV SAMPLE		PID/OVA READING	DEPTH (ft)	LITHOLOGICAL PROFILE Gvl -Gravel > 2.0 mm Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm SlT -Silt <0.062 mm Cl -Clay/Mud	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
			25	Gvl Scr Smd Sfn SlT Cl					OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
3							sm	SM	SILTY SAND/SANDY SILT: INCREASING SAND, BROWN.
							sm	ML	CLAYEY SILT: DRK. BROWN.
4			30				sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN SAND, DRK. BROWN.
							sm	ML	CLAYEY SILT: DRK. BROWN, INCREASING CLAY.
							sm	CL	SILTY CLAY: DRK. BROWN.
							sm	SM	SANDY SILT/SILTY SAND: BROWN, FINE TO MEDIUM GRAIN SAND.
5			35				sm	SP	SAND: FINE TO MEDIUM GRAIN, LT. BROWN.
							sm	ML	CLAYEY SILT: DRK. BROWN.
6			40						PROBER'S TOTAL DEPTH = 40.5 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.
			45						
			50						
			55						
			60						
			65						

LOG OF: BH-6A

PROJECT NAME <u>RED EAGLE/FULLERTON</u>		CONTRACTOR <u>ON-SITE SERVICES</u>	
PROJECT NO. <u>94-42871-03</u>		DRILLER(S) <u>ON-SITE SERVICES</u>	
SITE GEOLOGIST(S) <u>SSM</u>		RIG/METHOD <u>GEOPROBE</u>	
LOGGED BY <u>SSM</u>		SCREEN INTERVAL <u>N/A</u>	
		DRLR TD(ft) <u>41.00</u> WELL CONST TD(ft) <u>N/A</u>	
ELEVATIONS(REL. MSL)		LOCATION T <u>R SEC. 1/4</u>	
GRADE LEVEL(ft) _____		CITY <u>FULLERTON</u> CO <u>OR</u>	
TOP OF CASING(ft) <u>N/A</u>		COORDINATES(ft) _____	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	<u>1/9/95</u>	▼ ATD	_____	<u>N/A</u>
WELL CONST	<u>1/9/95</u>	▽ SWL*	_____	<u>N/A</u>
WELL DEVELOP	<u>N/A</u>	⊥ SPL*	<u>N/A</u>	<u>N/A</u>
BACKFILL	<u>1/9/95</u>	(* PRIOR TO INITIAL DEVELOPMENT)		

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	LITHOLOGICAL PROFILE						PID/OVA CALIBRATION DATE: <u>1/6/95</u> CALIBRATION UNITS: <u>95 ppm</u> THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS. THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.				GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION	
			Gvl -Gravel > 2.0 mm	Scr -Coarse Sand 2.00-0.50 mm	Smd -Medium Sand 0.50-0.25 mm	Sfn -Fine Sand 0.25-0.062 mm	Slt -Silt <0.062 mm	Cl -Clay/Mud										Gvl
		0																<u>ASPHALT</u>
		5																
		10																
		15																
1		20													sm	SM	<u>SANDY SILT</u> : FINE TO MEDIUM GRAIN SAND, BROWN, CHLORINATED ODOR.	
2		25													sm	SM	<u>SILTY SAND</u> : INCREASING SAND, FINE TO MEDIUM GRAIN, SLIGHT ODOR.	

ENV SAMPLE		PID/OVA READING	DEPTH (ft)	LITHOLOGICAL PROFILE Gvl -Gravel > 2.0 mm Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm slt -silt <0.062 mm Cl -Clay/Mud	GRAPHICS	MELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
			25	Gvl Scr Smd Sfn slt Cl					
3			30				sm SM		SILTY SAND: FINE TO MEDIUM GRAIN, DRK. BROWN.
4			35				sm SP		SAND: FINE TO MEDIUM GRAIN, LT. BROWN.
			40				sm SP		SAND: FINE TO MEDIUM GRAIN.
5			45				sm SM		SILTY SAND: FINE TO MEDIUM GRAIN. PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.
			50						
			55						
			60						
			65						

LOG OF: BH-8

PROJECT NAME		RED EAGLE/FULLERTON		CONTRACTOR		ON-SITE SERVICES	
PROJECT NO.		94-42871-03		DRILLER(S)		ON-SITE SERVICES	
SITE GEOLOGIST(S)		SSM		RIG/METHOD		GEOPROBE	
LOGGED BY		SSM		SCREEN INTERVAL		N/A	
				DRLR TD(ft)		41.00 WELL CONST TD(ft)	
ELEVATIONS(REL. MSL)				LOCATION T		R SEC. 1/4	
GRADE LEVEL(ft)				CITY		FULLERTON CO OR	
TOP OF CASING(ft)		N/A		COORDINATES(ft)			
RECORD:		DATE/TIME		GROUNDWATER:		DEPTH(ft) DATE/TIME	
DRLG/CORING		1/10/95		ATD		N/A	
WELL CONST		1/10/95		SWL*		N/A	
WELL DEVELOP		N/A		SPL*		N/A	
BACKFILL		1/10/95		(* PRIOR TO INITIAL DEVELOPMENT)			
LITHOLOGICAL PROFILE		PID/OVA CALIBRATION DATE: 1/6/95 CALIBRATION UNITS: 95 ppm					
Gvl -Gravel > 2.0 mm		THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.					
Scr -Coarse Sand 2.00-0.50 mm		THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.					
Smd -Medium Sand 0.50-0.25 mm							
Sfn -Fine Sand 0.25-0.062 mm							
Slt -Silt <0.062 mm							
Cl -Clay/Mud							
Gvl Scr Smd Sfn Slt Cl							
DEPTH (ft)		GRAPHICS		WELL CONSTRUCTION		SOIL CLASSIFICATION	
						DESCRIPTION	
						OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.	
0						ASPHALT	
5							
10							
15				SM ML		SANDY SILT: FINE GRAIN SAND, BROWN, CHLORINATED ODOR.	
20				SM SM		SANDY SILT: FINE TO MEDIUM GRAIN SAND, BROWN, CHLORINATED ODOR.	
25				SM SM		SILTY SAND: INCREASING SAND, FINE TO MEDIUM GRAIN, SLIGHT ODOR.	



CONVERSE ENVIRONMENTAL WEST - U.C.
 PROJECT NAME RED EAGLE/FULLERTON
 PROJECT NO 94-42871-03

LOG OF: BH-8

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	LITHOLOGICAL PROFILE					GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
			Gvl	Scr	Smd	Sfn	Slt	Cl				
			Gvl -Gravel > 2.0 mm Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm Slt -Silt <0.062 mm Cl -Clay/Mud									OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
4		25										
										sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN, DRK. BROWN, SLIGHT ODOR.
5		30										
										sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN, BROWN, SLIGHT ODOR.
6		35										
		40								sm	ML	CLAYEY SILT: TRACE SAND, SLIGHT ODOR.
		45										
		50										
		55										
		60										
		65										

PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE.
 NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.

LOG OF: BH-9

PROJECT NAME <u>RED EAGLE/FULLERTON</u>		CONTRACTOR <u>ON-SITE SERVICES</u>	
PROJECT NO. <u>94-42871-03</u>		DRILLER(S) <u>ON-SITE SERVICES</u>	
SITE GEOLOGIST(S) <u>SSM</u>		RIG/METHOD <u>GEOPROBE</u>	
LOGGED BY <u>SSM</u>		SCREEN INTERVAL <u>N/A</u>	
		DRLR TD(ft) <u>41.00</u> WELL CONST TD(ft) <u>N/A</u>	
ELEVATIONS(REL. MSL)		LOCATION T <u>R</u> SEC. <u>1/4</u>	
GRADE LEVEL(ft) _____		CITY <u>FULLERTON</u> CO <u>OR</u>	
TOP OF CASING(ft) <u>N/A</u>		COORDINATES(ft) _____	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	<u>1/10/95</u>	▼ ATD	_____	<u>N/A</u>
WELL CONST	<u>1/10/95</u>	▽ SWL*	_____	<u>N/A</u>
WELL DEVELOP	<u>N/A</u>	≡ SPL*	<u>N/A</u>	<u>N/A</u>
BACKFILL	<u>1/10/95</u>	(* PRIOR TO INITIAL DEVELOPMENT)		

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	LITHOLOGICAL PROFILE						PID/OVA CALIBRATION DATE: <u>1/6/95</u> CALIBRATION UNITS: <u>95 ppm</u> THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS. THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.				GRAPHICS WELL CONSTRUCTION MOISTURE SOIL CLASSIFICATION	DESCRIPTION OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
			Gvl	Scr	Smd	Sfn	Slt	Cl						
			Gvl -Gravel > 2.0 mm Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm Slt -Silt <0.062 mm Cl -Clay/Mud											
		0	ASPHALT											
		5												
		10												
1		15	sm SM SANDY SILT: FINE GRAIN SAND, BROWN, CHLORINATED ODOR.											
2		20	sm SM SANDY SILT: FINE TO MEDIUM GRAIN SAND, BROWN, SOME CLAY.											
3		25	sm SM SILTY SAND: FINE TO MEDIUM GRAIN, SLIGHT ODOR.											

ENV SAMPLE		PID/OVA READING		DEPTH (ft)		LITHOLOGICAL PROFILE						CONVERSE ENVIRONMENTAL WEST - O.C.		PROJECT NAME		PROJECT NO		LOG OF:		SHEET 2 OF 2	
						Gvl -Gravel > 2.0 mm Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm Slc -Silt <0.062 mm Cl -Clay/Mud								RED EAGLE/FULLERTON		94-42871-03		BH-9			
						GRAPHICS WELL CONSTRUCTION MOISTURE SOIL CLASSIFICATION						DESCRIPTION OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.									
				25																	
4				30								sm		ML						CLAYEY SILT: SOME FINE GRAIN SAND, DRK. BROWN, SLIGHT ODOR.	
5				35								sm		SP						SAND: FINE TO MEDIUM GRAIN, BROWN, SLIGHT ODOR.	
6				40								sm		ML						SANDY SILT: FINE TO MEDIUM GRAIN SAND, SOME CLAY, SLIGHT ODOR.	
				45																PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.	
				50																	
				55																	
				60																	
				65																	

LOG OF: BH-10

PROJECT NAME	<u>RED EAGLE/FULLERTON</u>	CONTRACTOR	<u>ON-SITE SERVICES</u>
PROJECT NO.	<u>94-42871-03</u>	DRILLER(S)	<u>ON-SITE SERVICES</u>
SITE GEOLOGIST(S)	<u>SSM</u>	RIG/METHOD	<u>GEOPROBE</u>
LOGGED BY	<u>SSM</u>	SCREEN INTERVAL	<u>N/A</u>
		DRLR TD(ft)	41.00
		WELL CONST TD(ft)	N/A

ELEVATIONS(REL. MSL)	LOCATION T	R SEC. 1/4
GRADE LEVEL(ft)	CITY	FULLERTON CO OR
TOP OF CASING(ft)	N/A	COORDINATES(ft)

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	1/10/95	ATD		N/A
WELL CONST	1/10/95	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	1/10/95	(* PRIOR TO INITIAL DEVELOPMENT)		

PID/OVA CALIBRATION DATE: 1/6/95 CALIBRATION UNITS: 95 ppm
 THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE
 ORGANIC POLLUTANTS.
 THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING.
 SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE
 PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	LITHOLOGICAL PROFILE						GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
			Gvl	Scr	Smd	Sfn	SlT	Cl					
			Gvl -Gravel > 2.0 mm Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm SlT -Silt <0.062 mm Cl -Clay/Mud										
		0	Gvl	Scr	Smd	Sfn	SlT	Cl					ASPHALT
		5											
		10											
1		15								sm	ML		SANDY SILT: FINE GRAIN SAND, BROWN.
2		20								sm	SM		SANDY SILT/SILTY SAND: INCREASING SAND-FINE TO MEDIUM GRAIN BROWN,
3		25								sm	ML		SANDY SILT: FINE GRAINSAND.



ENV SAMPLE		PID/OVA READING	LITHOLOGICAL PROFILE Gvl -Gravel > 2.0 mm Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm SlT -silt <0.062 mm Cl -Clay/Mud	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
			Gvl Scr Smd Sfn SlT Cl	25					OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
4				30			sm ML		SANDY SILT: SOME FINE GRAIN SAND AND CLAY, BROWN, SLIGHT ODOR.
5				35			sm SP		SAND: FINE TO MEDIUM GRAIN, LT. BROWN.
6				40			sm SM		SANDY SILT: FINE TO MEDIUM GRAIN SAND, SOME CLAY.
				45					PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.
				50					
				55					
				60					
				65					



CONVERSE ENVIRONMENTAL WEST - O.C.

SHEET 2 OF 2

PROJECT NAME RED EAGLE/FULLERTON

PROJECT NO 94-42871-03

LOG OF: BH-5A

ENV SAMPLE

PID/OVA READING

LITHOLOGICAL PROFILE

Gvl -Gravel
> 2.0 mm

Scr -Coarse Sand
2.00-0.50 mm

Smd -Medium Sand
0.50-0.25 mm

Sfn -Fine Sand
0.25-0.062 mm

SlT -Silt <0.062 mm

Cl -Clay/Mud

DEPTH (ft)

GRAPHICS

WELL CONSTRUCTION

MOISTURE

SOIL CLASSIFICATION

DESCRIPTION

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

1

25

sm

ML

CLAYEY SILT: DRK. BROWN, CHLORINATED ODOR.

sm

SM

SILTY SAND: FINE TO MEDIUM GRAIN SAND, BROWN, CHLORINATED ODOR.

sm

SM

SANDY SILT: FINE TO MEDIUM GRAIN SAND, CHLORINATED ODOR.

30

sm

ML

CLAYEY SILT: SOME SAND, INCREASING CLAY, DRK. BROWN.

sm

SM

SANDY SILT: FINE TO MEDIUM GRAIN SAND, BROWN.

2

35

sm

ML

CLAYEY SILT: BROWN, CHLORINATED ODOR.

sm

SP

SAND: FINE TO MEDIUM GRAIN, CHLORINATED ODOR.

3

40

sm

SM

SANDY SILT: TRACE CLAY, FINE TO MEDIUM GRAIN SAND.

sm

SM

SILTY SAND

PROBER'S TOTAL DEPTH = 41.5 FEET BELOW GROUND SURFACE.
NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.

45

50

55

60

65

LOG OF: BH-5A

PROJECT NAME <u>RED EAGLE/FULLERTON</u>		CONTRACTOR <u>ON-SITE SERVICES</u>	
PROJECT NO. <u>94-42871-03</u>		DRILLER(S) <u>ON-SITE SERVICES</u>	
SITE GEOLOGIST(S) <u>SSM</u>		RIG/METHOD <u>GEOPROBE</u>	
LOGGED BY <u>SSM</u>		SCREEN INTERVAL <u>N/A</u>	
		DRLR TD(ft) <u>41.50</u> WELL CONST TD(ft) <u>N/A</u>	
ELEVATIONS(REL. MSL)		LOCATION T <u>R</u> SEC. <u>1/4</u>	
GRADE LEVEL(ft) _____		CITY <u>FULLERTON</u> CO <u>OR</u>	
TOP OF CASING(ft) <u>N/A</u>		COORDINATES(ft) _____	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	<u>1/9/95</u>	▼ ATD	_____	<u>N/A</u>
WELL CONST	<u>1/9/95</u>	▽ SWL*	_____	<u>N/A</u>
WELL DEVELOP	<u>N/A</u>	⊥ SPL*	<u>N/A</u>	<u>N/A</u>
BACKFILL	<u>1/9/95</u>	(* PRIOR TO INITIAL DEVELOPMENT)		

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	LITHOLOGICAL PROFILE						PID/OVA CALIBRATION DATE: <u>1/6/95</u> CALIBRATION UNITS: <u>95 ppm</u>				
			Gvl -Gravel > 2.0 mm						THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.				
			Scr -Coarse Sand 2.00-0.50 mm						THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.				
			Smd -Medium Sand 0.50-0.25 mm										
			Sfn -Fine Sand 0.25-0.062 mm						GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
			Slt -Silt <0.062 mm										
			Cl -Clay/Mud										
			Gvl Scr Smd Sfn Slt Cl										
		0											ASPHALT
		5											
		10											
		15											
		20											
		25											



PROJECT NAME <u>RED EAGLE/FULLERTON</u> PROJECT NO. <u>94-42871-03</u> SITE GEOLOGIST(S) <u>SSM</u> LOGGED BY <u>SSM</u>		CONTRACTOR <u>ON-SITE SERVICES</u> DRILLER(S) <u>ON-SITE SERVICES</u> RIG/METHOD <u>GEOPROBE</u> SCREEN INTERVAL <u>N/A</u> DRLR TD(ft) <u>41.00</u> WELL CONST TD(ft) <u>N/A</u>	
ELEVATIONS(REL. MSL) GRADE LEVEL(ft) _____ TOP OF CASING(ft) <u>N/A</u>		LOCATION T <u>R</u> SEC. <u>1/4</u> CITY <u>FULLERTON</u> CO <u>OR</u> COORDINATES(ft) _____	
RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft) DATE/TIME
DRLG/CORING	<u>1/11/95</u>	▼ ATD	<u>N/A</u>
WELL CONST	<u>1/11/95</u>	▽ SWL*	<u>N/A</u>
WELL DEVELOP	<u>N/A</u>	≡ SPL*	<u>N/A</u>
BACKFILL	<u>1/11/95</u>	(* PRIOR TO INITIAL DEVELOPMENT)	

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	LITHOLOGICAL PROFILE Gvl -Gravel > 2.0 mm Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm Slt -Silt <0.062 mm Cl -Clay/Mud						PID/OVA CALIBRATION DATE: <u>1/6/95</u> CALIBRATION UNITS: <u>95 ppm</u> THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS. THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.			DESCRIPTION OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.		
			Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION		
		0									ASPHALT			
		5												
		10												
1		15						sm	ML		CLAYEY SILT: BROWN.			
2		20						sm	SM		SILTY SAND: INCREASING SAND-FINE TO MEDIUM GRAIN, BROWN,			
3		25						sm	SM		SILTY SAND: FINE TO MEDIUM GRAIN.			



ENV SAMPLE		PID/OVA READING		DEPTH (ft)		LITHOLOGICAL PROFILE		CONVERSE ENVIRONMENTAL WEST - O.C.		PROJECT NAME		PROJECT NO		LOG OF: BH-12	
						Gvl -Gravel > 2.0 mm Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm Slc -Silt <0.062 mm Cl -Clay/Mud				RED EAGLE/FULLERTON		94-42871-03			
						GRAPHICS WELL CONSTRUCTION MOISTURE SOIL CLASSIFICATION		DESCRIPTION OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.							
				25											
4				30				sm	ML	CLAYEY SILT: INCREASING CLAY, BROWN.					
5				35				sm	SP	SAND: FINE TO MEDIUM GRAIN, LT. BROWN.					
6				40				sm	ML	CLAYEY SILT: SOME FINE GRAIN SAND, DRK. BROWN.					
				45						PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.					
				50											
				55											
				60											
				65											



PROJECT NAME <u>RED EAGLE/FULLERTON</u> PROJECT NO. <u>94-42871-03</u> SITE GEOLOGIST(S) <u>SSM</u> LOGGED BY <u>SSM</u>		CONTRACTOR <u>ON-SITE SERVICES</u> DRILLER(S) <u>ON-SITE SERVICES</u> RIG/METHOD <u>GEOPROBE</u> SCREEN INTERVAL <u>N/A</u> DRLR TD(ft) <u>41.00</u> WELL CONST TD(ft) <u>N/A</u>	
ELEVATIONS(REL. MSL) GRADE LEVEL(ft) _____ TOP OF CASING(ft) <u>N/A</u>		LOCATION T <u>R</u> SEC. <u>1/4</u> CITY <u>FULLERTON</u> CO <u>OR</u> COORDINATES(ft) _____	
RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft) DATE/TIME
DRLG/CORING	<u>1/11/95</u>	▼ ATD	<u>N/A</u>
WELL CONST	<u>1/11/95</u>	▽ SWL*	<u>N/A</u>
WELL DEVELOP	<u>N/A</u>	⊥ SPL*	<u>N/A</u>
BACKFILL	<u>1/11/95</u>	(* PRIOR TO INITIAL DEVELOPMENT)	

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	LITHOLOGICAL PROFILE Gvl -Gravel > 2.0 mm Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm Slt -Silt <0.062 mm Cl -Clay/Mud					PID/OVA CALIBRATION DATE: <u>1/6/95</u> CALIBRATION UNITS: <u>95 ppm</u> THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS. THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.				DESCRIPTION OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.		
			Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION		
		0						ASPHALT						
		5												
		10												
1		15	[Hatched Pattern]					sm	ML	CLAYEY SILT: BROWN.				
2		20	[Dotted Pattern]					sm	SM	SANDY SILT: INCREASING SAND-FINE TO MEDIUM GRAIN, BROWN,				
3		25	[Dotted Pattern]					sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN SAND, MICACEOUS.				



ENV SAMPLE		PID/OVA READING		DEPTH (ft)		LITHOLOGICAL PROFILE		CONVERSE ENVIRONMENTAL WEST - O.C.		PROJECT NAME		PROJECT NO		LOG OF:	
						Gvl -Gravel > 2.0 mm Scr -Coarse Sand 2.00-0.50 mm Smd -Medium Sand 0.50-0.25 mm Sfn -Fine Sand 0.25-0.062 mm Slt -Silt <0.062 mm Cl -Clay/Mud		GRAPHICS		WELL CONSTRUCTION		MOISTURE		SOIL CLASSIFICATION	
						Gvl Scr Smd Sfn Slt Cl								DESCRIPTION	
				25										OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.	
4				30						sm		ML		CLAYEY SILT: INCREASING CLAY, BROWN.	
5				35						sm		ML		SANDY SILT: FINE TO MEDIUM GRAIN SAND, SOME CLAY, LT. BROWN.	
				40						sm		SP		SAND: FINE TO MEDIUM GRAIN SAND, LT. BROWN.	
				45						sm		ML		CLAYEY SILT: DRK BROWN.	
				50										PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.	
				55											
				60											
				65											